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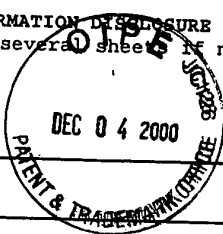
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John D. Baxter, et al.

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U.S. PATENT DOCUMENTS

*EXAMINE R INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
CS	P1	4,741,897	5/3/89	Andrews, et al.	436	500	5/3/88
	P2	4,766,121	8/23/88	Ellis, et al.	514	247	8/23/88
	P3	4,826,876	5/2/89	Ellis, et al.	514	535	5/2/89
	P4	4,910,305	3/20/90	Ellis, et al.	544	239	3/20/90
	P5	5,061,798	10/29/91	Emmett, et al.	544	239	10/29/91
	P6	5,116,828	5/26/92	Miura, et al.	514	171	5/26/92
	P7	5,171,671	12/15/92	Evans, et al.	435	69.1	12/15/92
	P8	5,284,999	2/8/94	Chin, et al.	435	252.3	2/8/94
	P9	5,312,732	5/17/94	Evans	435	69.1	5/17/94
	P10	5,322,933	6/21/94	Davies, et al.	530	399	6/21/94
	P11	5,403,925	4/4/95	Ozato	536	23.5	4/4/95
	P12	5,438,126	8/1/95	DeGroot, et al.	536	23.5	8/1/95
	P13	5,463,564	10/31/95	Agrafiotis et al.	700	268	10/31/95
	P14	5,466,861	11/14/95	Dawson, et al.	560	100	11/14/95

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
CS	E1	EP 335,628	4/10/89	EP				
	F2	WO 97/21993	6/19/97	PCT				
	F3	WO 98/07435	2/26/98	PCT				
	F4	WO 98/57919	12/23/98	PCT				

OTHER PUBLICATIONS (including Author, Title, Date, Pertinent Pages, Etc.)

CS	D1	Andrea, T.A., et al., "A Model for Thyroid Hormone-Receptor Interactions", <i>J. Med.Chem.</i> , Vol.22:221-232 (1979)
	D2	Apriletti, J.W., et al., "Expression of the Rat $\alpha 1$ Thyroid Hormone Receptor Ligand Binding Domain in <i>Escherichia coli</i> and the Use of a Ligand-Induced Conformation Change as a Method for its Purification to Homogeneity", <i>Protein Expression and Purification</i> , Vol.6:363-370 (1995)

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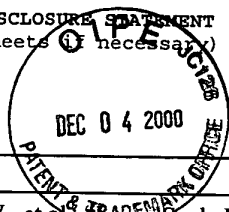
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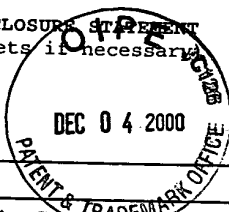
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	D4	Au-Fliegner, et al., "The Conserved Ninth C-Terminal Heptad in Thyroid Hormone and Retinoic Acid Receptors Mediates Diverse Responses by Affecting Heterodimer but Not Homodimer Formation", <u>Mol.Cell Biol.</u> , Vol.13:5725-5737 (1993)
	D5	Baniahmad, A., et al., "The $\tau 4$ Activation Domain of the Thyroid Hormone Receptor is Required for Release of a Putative Corepressor(s) Necessary for Transcriptional Silencing", <u>Mol.Cell Biol.</u> , Vol.15:76-86 (1995)
	D6	Barettino, D., et al., "Characterization of the Ligand-dependent Transactivation Domain of Thyroid Hormone Receptor", <u>Embo.J.</u> , Vol.13:3039-3049 (1994)
	D7	Barker, et al., "Thyroxine Antagonism by Partially Iodinated Thyronines and Analogues", <u>Ann.N.Y.Acad.Sci.</u> , Vol.86:545-562 (1960)
	D8	Beck-Pecoz, P., et al., "Nomenclature of Thyroid Hormone Receptor $\beta$ -Gene Mutations in Resistance to Thyroid Hormone: Consensus Statement from the First Workshop on Thyroid Hormone Resistance, July 10-11, 1993 Cambridge, United Kingdom", <u>J.Clin.Endocrinol Metab.</u> , Vol.78:990-993 (1994)
	D9	Bhat, M.K., et al., "Interaction of Thyroid Hormone Nuclear Receptor With Antibody: Characterization of the Thyroid Hormone Binding Site", <u>Biochem.Biophys.Res.Comm.</u> , Vol.210:464-471 (1995)
	D10	Blake, C.C. & Oatley, S.J., "Protein-DNA and Protein-Hormone Interactions in prealbumin: a Model of the Thyroid Hormone Nuclear Receptor?", <u>Nature</u> , Vol.268:115-120 (1977)
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	D12	Bourguet, W., et al., "Crystal Structure of the Ligand-Binding Domain of the Human Nuclear Receptor RXR- $\alpha$ ", <u>Nature</u> , Vol.375:377-382 (1995)
	D13	Brent, G.A., "The Molecular Basis of Thyroid Hormone Action", <u>N.Engl.J.Med.</u> , Vol.331:847-853 (1994)
	D14	Brunger, A.T., et al., "Crystallographic R Factor Refinement by Molecular Dynamics", <u>Science</u> , Vol.235:458-460 (1987)
	D15	Casanova, J., et al., "Functional Evidence for Ligand-Dependent Dissociation of Thyroid Hormone and Retinoic Acid Receptors from an Inhibitory Cellular Factor", <u>Mol.Cell.Biol.</u> , Vol.14:5756-5765 (1994)
	D16	Cavaillès, V. et al., "Nuclear Factor RIP140 Modulates Transcriptional Activation by the Estrogen Receptor", <u>Embo. J.</u> , Vol.14:3741-3751 (1995)
	D17	Chang, K.H., et al., "A Thyroid hormone receptor coactivator negatively regulated by the retinoblastoma protein", <u>Proc.Natl.Acad.Sci.USA</u> , Vol. 94(17):9040-9045 (1997)
	D18	Collaborative Computational Project, N. 4., "The CCP4 Suite: Programs for Protein Crystallography", <u>Acta Crystallogr.</u> , Vol.D50:760-763 (1994)
	D19	Collingwood, T.N., et al., "Spectrum of Transcriptional, Dimerization, and Dominant Negative Properties of Twenty Different Mutant Thyroid Hormone $\beta$ -Receptors in Thyroid Hormone Resistance Syndrome", <u>Mol.Endocrinol.</u> , Vol.8:1262-1277 (1994)
	D20	Cowan, S.W., et al., "Improved Methods for Building Protein Models in Electron Density Maps and the Location of Errors in These Models", <u>Acta Crystallogr A</u> , Vol.47:110-119 (1991)

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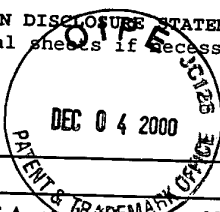
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CS	D21	Cowtan, K., <u>Joint CCP4 and ESF-EACBM Newsletter on Protein Crystallography</u> , Vol.31:34-38 (1994)
	D22	Crowe et al., "6xHis-Ni-NTA Chromatography as a Superior Technique in Recombinant Protein Expression/Purification" <u>Methods in Molecular Biology</u> , Vol.31:371-387 (1994)
	D23	Damm, K. & Evans, R.M., "Identification of a Domain Required for Oncogenic Activity and Transcription suppression by v-erbA and Thyroid-Hormone receptor $\alpha$ ", <u>Proc.Natl.Acad.Sci.USA</u> , Vol.90:10668-10672 (1993)
	D24	Danielian, P.S., et al., "Identification of a Conserved Region Required for Hormone Dependent Transcriptional Activation by Steroid Hormone Receptors", <u>Embo.J.</u> , Vol.11:1025-1033 (1992)
	D25	Dietrich, S.W., et al., "Thyroxine Analogues. 23. Quantitative Structure-Activity Correlation Studies of in Vivo and in Vitro Thyromimetic Activities", <u>J. Med.Chem.</u> , Vol.20:863-880 (1977)
	D26	Durand, B., et al., "Activation Function 2 (AF-2) of Retinoic Acid Receptor and 9- <i>cis</i> Retinoic Acid Receptor: Presence of a Conserved Autonomous Constitutive Activating Domain and Influence of the Nature of the Response Element on AF-2 Activity", <u>Embo.J.</u> , Vol.13:5370-5382 (1994)
	D27	Evans, R.M., "The Steroid and Thyroid Hormone Receptor Superfamily", <u>Science</u> , Vol.240:889-895 (1988)
	D28	Fawell, S.E. et al., "Characterization and Colocalization of Steroid Binding and Dimerization Activities in the Mouse Estrogen Receptor", <u>Cell</u> , Vol.60:953-962 (1990)
	D29	Forman, B.M. & Samuels, H.H., "Interactions Among a Subfamily of Nuclear Hormone Receptors: The Regulatory Zipper Model", <u>Mol.Endocrinol.</u> , Vol.4:1293-1301 (1990)
	D30	Gewirth, D.T. & Sigler, P.B., "The Basis for Half-Site Specificity Explored Through a Non-Cognate Steroid Receptor-DNA Complex", <u>Nature Structural Biology</u> , Vol.2:386-394 (1995)
	D31	Glass, C.K., "Differential Recognition of Target Genes by Nuclear Receptor Monomers, Dimers, and Heterodimers", <u>Enocr.Rev.</u> , Vol.15:391-407 (1994)
	D32	Hajduk et al., "Discovering High Affinity Ligands for Proteins," <u>Science</u> , Vol.278:497-499 (1997)
	D33	Hayashi, Y. et al., "Mutations of CpG Dinucleotides Located in the Triiodothyronine (T <sub>3</sub> )-Binding Domain of the Thyroid hormone Receptor (TR) $\beta$ - Gene That Appears to be Devoid of Natural Mutations may not be Detected Because They are Unlikely to Produce the Clinical Phenotype of Resistance to Thyroid Hormone", <u>J.Clin.Invest.</u> , Vol.94:607-615 (1994)
	D34	Heery, E., et al., "A signature motif in transcriptional co-activators mediates binding to nuclear receptors," <u>Nature</u> , Vol.387:733-736 (1997)
	D35	Hollenberg, et al., "Ligand-Independent and -Dependent Functions of Thyroid Hormone Receptor Isoforms Depend Upon Their Distinct Amino Termini", <u>J.Biol.Chem.</u> , Vol.270(24):14274-14280 ((1995)
	D36	Horwitz, K.B., "The Molecular Biology of RU486. Is There a Role for Antiprogestins in the Treatment of Breast Cancer?", <u>Endocrine Rev.</u> , Vol.13:146-163 (1992)
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✓	D39	Jancarik & Kim, "Sparse Matrix Sampling: A Screening Method for Crystallization of Proteins", <u>J.Appl.Crystallogr.</u> , Vol.24:409-411 (1991)

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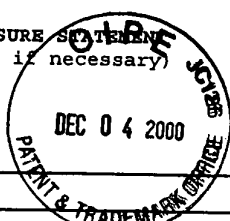
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	D41	Jones, T.R., et al., "Structure-Based Design of Lipophilic Quinazoline Inhibitors of Thymidylate Synthase," <u>J.Med.Chem.</u> , Vol.39(4):904-917 (1996)
	D42	Jorgenson, "Thyroid Hormones and Analogs in 6 Hormonal Proteins and Peptides" <u>Thyroid Hormones</u> , 150-151 (1978)
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	D44	Kabsch, W.J., "Automatic Processing of Rotation Diffraction Data From Crystals of Initially Unknown Symmetry and Cell Constants", <u>Appl.Crystallogr.</u> , Vol.26:795-800 (1993)
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	D49	Latham, K.R., et al., "Development of Support Matrices for Affinity Chromatography of Thyroid Hormone Receptors", <u>J.Biol.Chem.</u> , Vol.256:12088-12093 (1981)
	D50	Laudet, V., "Evolution of the Nuclear Receptor Gene Superfamily" <u>Embo.J.</u> , Vol.11:1003-1013 (1992)
	D51	LeDouarin, B., et al. "The N-Terminal Part of TIF1, a Putative Mediator of the Ligand-Dependent Activation Function (AF-2) of Nuclear Receptors, is fused to B-raf in the Oncogenic Protein T18", <u>Embo.J.</u> , Vol.14:2020-2033 (1995)
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	D54	Leeson, P.D., et al., "Selective Thyromimetics. Cardiac-Sparing Thyroid Hormone Analogues Containing 3'-Arylmethyl Substituents", <u>J.Med.Chem.</u> , Vol.32:320-336 (1989)
	D55	Leeson, P.D., et al., "Thyroid Hormone Analogues. Synthesis of 3'-Substituted 3,5-Diiodo-L-Thyronines and Quantitative Structure-Activity Studies of in Vitro and in Vivo Thyromimetic Activities in Rat Liver and Heart", <u>J.Med.Chem.</u> , Vol.31:37-54 (1987)
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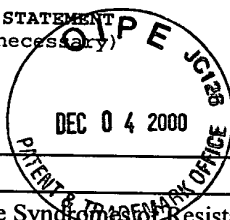
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	D59	Lewis, N. and Wallbank, P., "Formation of Quinol Ethers Using (Diacetoxyiodo) Benzene", <u>Synthesis</u> , 1103 (1987)
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	D62	Lleywegt, G.J. et al., "OOPS-a-daisy" <u>ESF/CCP4 Newsletter</u> , June 30, 1994, pp. 20-24
	D63	Luisi, B.F., et al., "Crystallographic Analysis of the Interaction of the Glucocorticoid Receptor with DNA", <u>Nature</u> , Vol.352:497-505 (1991)
	D64	McGrath et al., "Rapid Preparation of Proteins for Crystallization Tials," <u>Biotechniques</u> , Vol.7:246-247 (1989)
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	D90	Tagami, T., et al., "Nuclear Receptor Corepressors Activate Rather than Suppress Basal Transcription of Genes that are Negatively Regulated by Thyroid Hormone," <u>Mol.Cell.Biol.</u> , Vol.17(5):2642-2648 (1997)
	D91	Toney, J.H., et al., "Conformational Changes in Chicken Thyroid Hormone Receptor $\alpha$ 1 Induced by Binding to Ligand or to DNA", <u>Biochemistry</u> , Vol.32:2-6 (1993)
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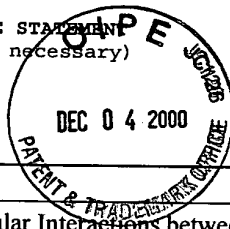
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CS	D98	Bolger et al., "Molecular Interactions between Thyroid Hormone Analogs and the Rat Liver Nuclear Receptor," Journal of Biological Chemistry, 255(21):10271-10278, (1980)
	D99	Chiellini et al., "A High-Affinity Subtype-Selective Agonist for the Thyroid Hormone Receptor," Chemistry and Biology, 5(6):299-306, (1998)
	D100	Jorgenson et al., "The Nature of the Thyroid Hormone Receptor," Thyroid Research, 378:303-306, (1976)
↓	D101	Ribeiro et al., "Mechanisms of Thyroid Hormone Action: Insights from X-ray Crystallographic and Functional Studies," Recent Progress in Hormone Research, 53:351-394, (1998)

EXAMINER

*Carly SR*

DATE CONSIDERED

10/24/02

- \* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformation and not considered. Include a copy of this form with the next communication to applicant.